Notice of Allowability	Application No.	Applicant(s)
	10/651,131	HIBINO ET AL.
	Examiner	Art Unit
	Vikansha S. Dwivedi	3746
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communication is sufficiently.	this application. If not included nication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>8/21/2006</u> .		<u>.</u>
2. 🔀 The allowed claim(s) is/are <u>1-3, 5-7, 11, 15, 16, 18, 24, 25</u>	(As presented by the examine	<u>er)</u> .
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application	No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or i	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)		ormal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sur Paper No./M	nmary (PTO-413), lail Date
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's A	mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🗌 Examiner's S	statement of Reasons for Allowance
· ·	9.	AM OHA
		Chillney Bloshed
		ANTHONY D. STASHICK PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Office Action Introduction

This office action is in response to the amendments of 8/21/2006. Claims 1-3, 5-7, 11, 15, 16, 18, 24 and 25 are allowed.

Response to Amendment

In response to the remarks made with respect to Claims 5-7 and 11, the amendments made to Claim 5 makes the claim fall in the elected species group and is in accordance with the election /restriction requirement.

Allowable Subject Matter

Claims 1-3, 5-7, 11, 15, 16, 18, 24 and 25 are allowed.

the pressure in the crank chamber;

The following is a statement of reasons for the indication of allowable subject matter:

A swash plate type variable displacement compressor connected to an external drive source for compressing refrigerant gas that contains lubricating oil comprising:

a cylinder block defining a cylinder bore;

a housing fixed to the cylinder block, the housing defining a crank chamber, a suction chamber and a discharge chamber;

a drive shaft supported by the housing and the cylinder block for rotation, the drive shaft being driven by the external drive source, the drive shaft having an axis; a swash plate supported by the drive shaft in the crank chamber so as to rotate integrally with the drive shaft, the swash plate being inclinable with respect to the axis of the drive shaft, an inclination angle of the swash plate being varied in accordance with

Art Unit: 3746

a piston accommodated in the cylinder bore so as to define a compression chamber in the cylinder bore, the piston being coupled to the swash plate, the rotation of the swash plate being converted into the reciprocating movement of the piston, displacement of the compressor being varied by the reciprocation of the piston in accordance with the inclination angle of the swash plate;

a control mechanism for controlling pressure in the crank chamber, the control mechanism including a bleed passage that interconnects the crank chamber with the suction chamber for decreasing the pressure in the crank chamber; and a communication path for interconnecting the crank chamber with the compression chamber only while the inclination angle of the swash plate is substantially the maximum inclination angle and the piston is located substantially at its bottom dead center.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikansha S. Dwivedi whose telephone number is 571-272-7834. The examiner can normally be reached on M-F, 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/651,131 Page 4

Art Unit: 3746

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VSD

ANTHONY D. STASHICK
PRIMARY EXAMINER